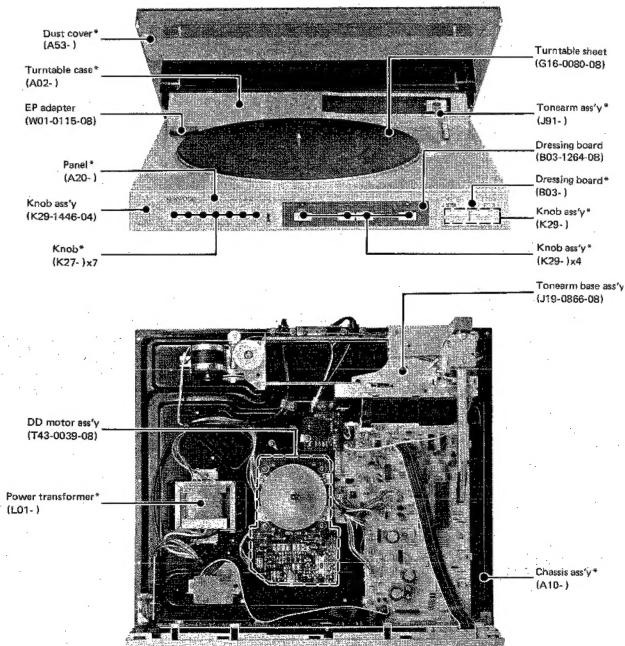


KENWOOD

KD-72F KD-72FB

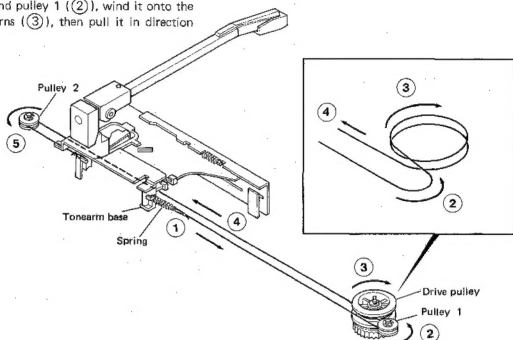
COMPUTER CONTROLLED AUTOMATIC TURNTABLE



* Refer to parts list on page 9.
Photo is KD-72F.

DIAL CORD STRINGING/BLOCK DIAGRAM

1. Attach the spring to the loop at one end of the string, and hitch it onto the arm base. Pull the string in direction ①.
2. Pass the string around pulley 1 (②), wind it onto the drive pulley two turns (③), then pull it in direction ④.
3. Pass the string around pulley 2 (⑤), and fix it to the arm base.



BLOCKDIAGRAM

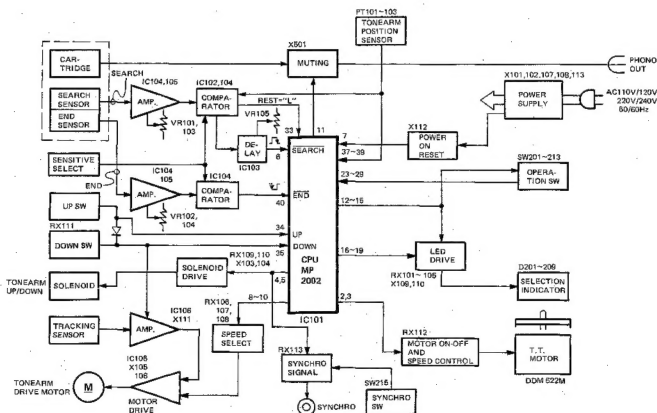


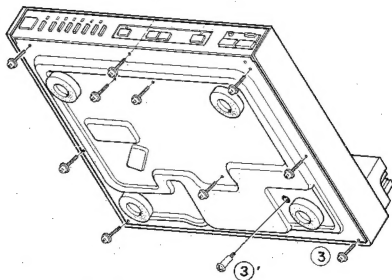
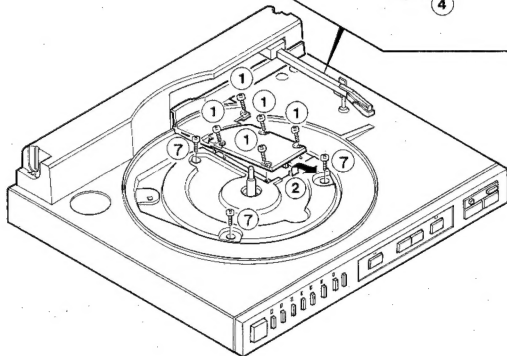
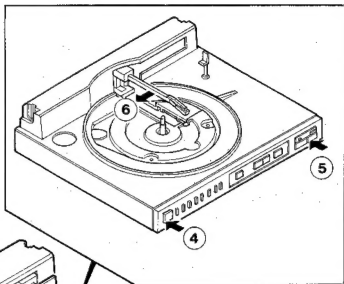
Fig. 1

DISASSEMBLY FOR REPAIR

HOW TO DISASSEMBLY FOR REPAIR

Removing cabinet

1. Remove screws (1), and remove the cabinet cover by pulling it in direction (2).
2. Remove the screws which are securing the main chassis to the cabinet (3), and remove the shipment screw (3').
3. Turn on the power (4).
4. Move the arm to (6), and stop the arm (5).
5. Remove screws (7), and lift the cabinet.



CIRCUIT DESCRIPTION

1. Composition

All the operations of this turntable are controlled by the control IC. The control IC detects the outputs of various sensors, and outputs the signals to the drive circuit.

The block diagram of this turntable is shown in Fig. 1.

2. Control IC

This IC is a microprocessor, and the functions of its terminals are shown in Fig. 2. Just after turning of the power, signal "L" is applied to terminal RES, then the turntable is operated according to the internal program. The output port is the open drain type when the port is H level it is open connection and when the port is L level it is 0 volt.

3. Sensor to detect space between musics

There are two sensors to detect space between musics. One is in the circuit which detects the space between musics when moving the arm (1), and the other is in the circuit which detects when the turntable is operating (2).

4. Input of operation switch

The matrix system is employed. Which switch is pressed is detected by sending out pulses which has deviated phase from the output terminal. The input of a switch pressed first has a priority, and the next switch cannot input unless the first switch is released.

Phototransistors PT101-103 are combined with the light shield plate which moves together with the arm base and used to detect the position of the arm, search signals, and sizes of the records. While the arm is in the resting position, PT101 is turned on and others are turned off. As the arm moves inward, all the three are temporarily tuned off, then turned on in order of PT103, 102 and 101. While the arm is resting, pin 11 of IC102 is at "L". Once the search signal is outputted from pin 10 of IC103, F.F of IC102 is reversed and pin 10 is set to "L" and pin 11 to "H" to notify the microcomputer that the arm has moved to above the record. In addition, the level of pin 12 of IC104 in the search comparator is set high to raise the threshold value being searched so that the blanks among musics can be accurately detected.

The end detecting phototransistor detects the blanks among musics. When the arm comes to a wide groove of the record (a blank among musics), pin 8 of IC104 is set to "L", and that is notified to END input of the microcomputer, then the microcomputer starts the ending operation after one music.

IC101 (microprocessor) is NCh MOS LSI which contains the mask program of 2 kilobytes that controls the whole player. The roles of pins, and the voltages and waveforms applied to them are shown in attached tables.

Port No.	I/O	Description	Port No.	I/O	Description
1	—	Clock signal	22	I	Power supply (+5V)
2	O	When turntable works, port has L level	23	I	When turntable is in fast feed, port has L level
3	O	When turntable works in 45rpm, port has L level	24	I	When turntable is in inside feed, port has L level
4	O	When solenoid (1) keeps to work, port has L level	25	I	When turntable is in outside feed, port has L level
5	O	When solenoid (2) kicks, port has L level	26	I	When matrix-in 1 works, port has L level
6	I	When pickup searches music interval, port has L level	27	I	When matrix-in 2 works, port has L level
7	I	When turntable is in reset, port has L level	28	I	When matrix-in 3 works, port has L level
8	O	When turntable is in fast feed, port has L level	29	I	When matrix-in 4 works, port has L level
9	O	When turntable is in inside feed, port has L level	30	I	When mode 1 works, port has L level
10	O	When turntable is in outside feed, port has L level	31	I	When mode 2 works, port has L level
11	O	When muting works, port has H level	32	I	When mode 3 works, port has L level
12	O	When matrix-out 1 works, port has L level	33	I	When turntable is put on record, port has H level
13	O	When matrix-out 2 works, port has L level	34	I	When pickup goes up completely, port has H level
14	O	When matrix-out 3 works, port has L level	35	I	When pickup goes down completely, port has H level
15	O	When matrix-out 4 works, port has L level	36	—	Power supply (+5V)
16	O	When LED 1 works, port has L level	37	I	When EP record is put on platter, port has H level
17	O	When LED 2 works, port has L level	38	I	When 25cm record is put on platter, port has H level
18	O	When LED 3 works, port has L level	39	I	When LP record is put on platter, port has H level
19	O	When LED 4 works, port has L level	40	I	When music end is found, port has L level
20	—	No use (OV)	41	—	Power supply (+5V)
21	—	Power supply (OV) GND	42	—	Clock signal

Fig. 2

ADJUSTMENT/REGLAGE

● Adjusting arm tracking center

1. Connect a DC voltmeter to Pin 1 (GND) and 6 of TP101.
2. With the arm fully bent to the left, turn VR106 until the voltage is 9.0V.

3. Return the arm to the center, and turn the eccentric pin of the arm base (Fig. 3) until the voltage is 0V.

● Adjusting sensitivity of sensor to detect space between music (1)

1. Connect a DC voltmeter to Pin 1 (GND) and 2 of TP101.
2. Move the arm over the lacquer disc (a glossy surface of a usual disc will do).

3. Turn VR101 (main) and VR103 (sub) to set the voltage to 4.3±0.3V. If they are turned clockwise, the voltage rises, and vice versa.

● Adjusting sensitivity of sensor to detect space between music (2)

1. Connect a DC voltage to Pin 1 (GND) and 3 of TP101.
2. Move the arm over the lacquer disc (a glossy surface of a usual disc will do), and lower it.

3. Turn VR102 (main) and VR104 (sub) to set the voltage to 2.3±0.3V. If they are turned clockwise, the voltage rises, and vice versa.

● Adjusting lowering position of arm for selecting music

1. Let the turntable play the music on a disc, the space between music of which is narrow to check the music selection performance (about 0.5mm).

2. Turn VR105 so that the desired music can be played from the first. If it is turned clockwise, the starting point is moved inward.

● Adjusting lead-in position

1. Place the test record (ES1008), and press the START switch.

2. Before the arm moves over the record, reflect the light in a glossy thing toward the sensor at the end of the arm.

3. Turn the eccentric pin of the arm base (Fig. 3) so that the needle lowers on a position of 15-25 counts.

● Adjusting turntable speed

1. Adjust the turntable speed to 45 rpm using VR1 on the circuit board of the motor.

2. Adjust the turntable speed to 33 rpm using VR2.

Note : If the speed of 33 rpm is adjusted first, it will be incorrect.

Pour augmenter la tension, les tourner dans le sens des aiguilles d'une montre et vice versa.

● Reglage de la position de descente du bras de lecture en mode de sélection du programme musical

1. Utiliser alors un disque dont le sillon intermusique est étroit (environ 0,5mm).

2. Régler VR105 de façon à pouvoir écouter le programme désiré dès le début.

Si on tourne VR105 dans le sens des aiguilles d'une montre, la position de départ du programme est déplacée vers l'intérieur cinconfrentiel du disque.

● Reglage de la position de départ

1. Placer un disque d'essai (ES1008) sur le plateau tourne-disques, puis appuyer sur l'interrupteur "START" (lancement).

2. Avant que le bras de lecture ne se déplace au-dessus du disque, réfléchir un rayon lumineux sur un objet luisant de manière à ce que le rayon réfléchi tombe sur le capteur installé au bout du bras de lecture.

3. Tourner la vis de décentration située à la base du bras de lecture (figure 3) de telle manière que la pointe de lecture descende sur le disque à un comptage de 15 à 25.

● Reglage du nombre de tours du plateau tourne-disque

1. Régler le nombre de tours, 45 tr/min, à l'aide de VR1 monté sur le substrat du moteur.

2. A la fin du réglage du nombre de tours 45 tr/min, procéder au réglage du nombre de tours 33 tr/min à l'aide de VR2.

Remarque : Si l'ordre de réglage n'est pas respecté, le nombre de tours 33 tr/min pourra être déréglé.

ABGLEICH

● Einstellung der Armabstastmetze

1. Ein Gleichstromvoltmeter an Stift 1 (GND) und Stift 6 von TP101 anschließen.

2. Den Arm ganz nach links schwenken und VR106 so einstellen, daß die Spannung zu 9,0V wird.

3. Den Arm zur Mitte zurückbringen, und den Exzenterstift (Abb. 3) so einstellen, daß die Spannung 0V wird.

● Einstellung der Empfindlichkeit für den Pausenfühler (1)

1. Ein Gleichstromvoltmeter an Stift 1 (GND) und Stift 2 von TP101 anschließen.

2. Den Arm auf einer Lackplatte (oder auf dem glänzenden Teil einer Schallplatte) bewegen.

3. Mit VR101 (Haupteneinstellung) und VR103 (Hilfseinstellung) auf 4,3±0,3V einstellen.

Die Spannung wird durch Drehung im Uhrzeigersinn größer und durch Drehung gegen den Uhrzeigersinn kleiner.

● Einstellung der Empfindlichkeit für den Pausenfühler (2)

1. Ein Gleichstromvoltmeter an Stift 1 (GND) und Stift 3 von TP101 anschließen.

2. Den Arm auf einer Lackplatte (oder auf dem glänzenden Teil einer Schallplatte) bewegen.

3. Mit VR102 (Haupteneinstellung) und VR104 (Hilfseinstellung) auf 2,3±0,3V einstellen.

Die Spannung wird durch Drehung im Uhrzeigersinn größer und durch Drehung gegen den Uhrzeigersinn kleiner.

● Einstellung der Armablenkposition bei Titelwahl

1. Wiedergabe mit Titelwahl mit einer Schallplatte mit geringer Titelbreite (etwa 0,5mm) durchführen.

2. VR105 so einstellen, daß der gewählte Titel von Anfang an gehört wird. Durch Drehung im Uhrzeigersinn wird die Ablenkposition nach innen hin verschoben.

● Einstellung der Einleiteungsposition

1. Die Prüfplatte (ES1008) auf den Plattenteller auflegen und die Starttaste drücken.

2. Mit einem glänzenden Gegenstand Licht auf den Fühler an der Armspitze reflektieren, bevor sich der Arm auf der Schallplatte bewegt.

3. Mit dem Exzenterstift (Abb. 3) an der Armbasis so einstellen, daß die Nadel beim Zählwert 15 bis 25 abgelenkt wird.

● Einstellung der Drehzahl des Plattentellers

1. VR1 auf der Motorbasis so einstellen, daß die Drehzahl zu 45 U/min wird.

2. Nach der Einstellung von 45 U/min mit VR2 so einstellen, daß die Drehzahl zu 33 U/min wird.

Zur Beachtung : Wenn die Einstellung in umgekehrter Reihenfolge durchgeführt wird, so wird eine Abweichung für 33 U/min verursacht.

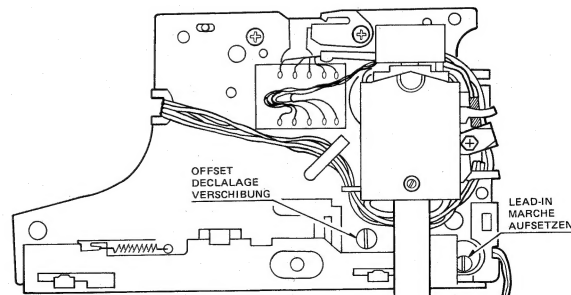
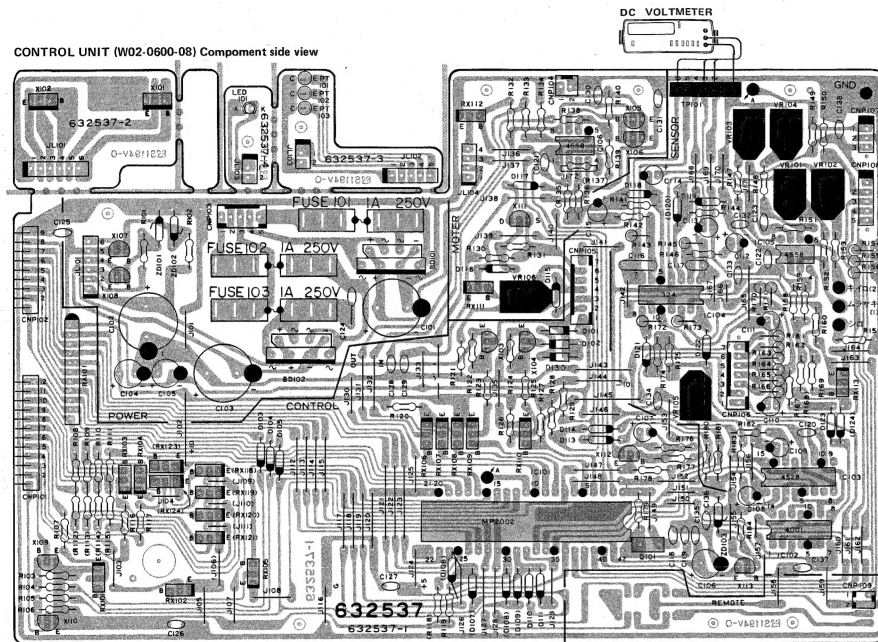


fig. 3

KD-72F/B KD-72F/B

PC BOARD

CONTROL UNIT (W02-0600-08) Component side view



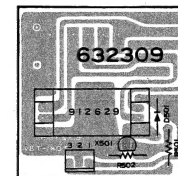
IC101 : MP2002

1	22	5V
2	0V	23
3	0V	24
4	0V	25
5	10V	26
6	0V	27
7	28	
8	10V	29
9	10V	30
10	10V	31
11	0V	32
12	33	10V (TONEARM AT REST : 0V)
13	34	5V (DOWN : 0V)
14	35	5V (UP : 0V)
15	36	5V
16	37	EP : 10V
17	10V	38
18	39	LP : 10V
19	40	(MUSIC INTERVAL : L)
20	0V	41
21	0V	42

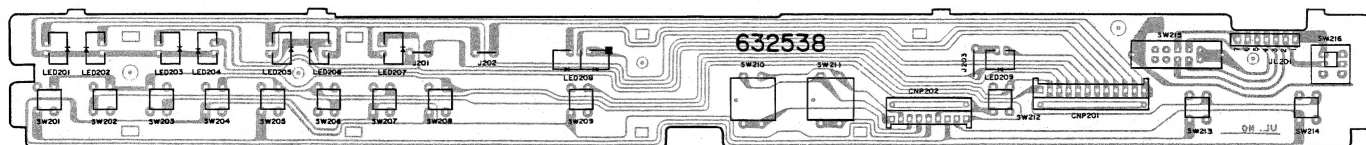
① ~ ⑥ : See photo on page 7.

	E	C	B
X101	19V	10V	—
X102	—21V	—10V	—
X107	10V	—	10.6V
X108	—10V	—	—10.7V
X113	5V	10V	5.6V

MUTING UNIT (W02-0596-08)
Component side view



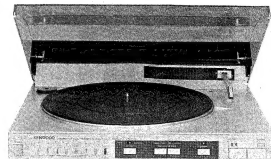
OPERATION UNIT (W02-0599-08) Component side view



Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.



KD-72F/B

[illegible]

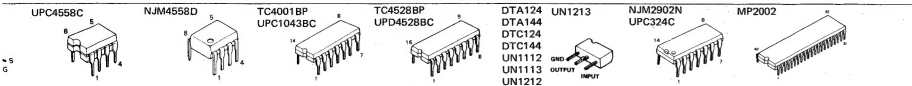
Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

- DC voltages are as measured with a high impedance voltmeter at 33 1/3 r.p.m. mode. Values may vary slightly due to variations between individual instruments and/or units.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, près de 33 1/3 r.p.m., en mode de lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments du mesure individuels.
- Die angegebenen Gleichspannungswerte wurden bei 33 1/3 r.p.m. in der Widergabe mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

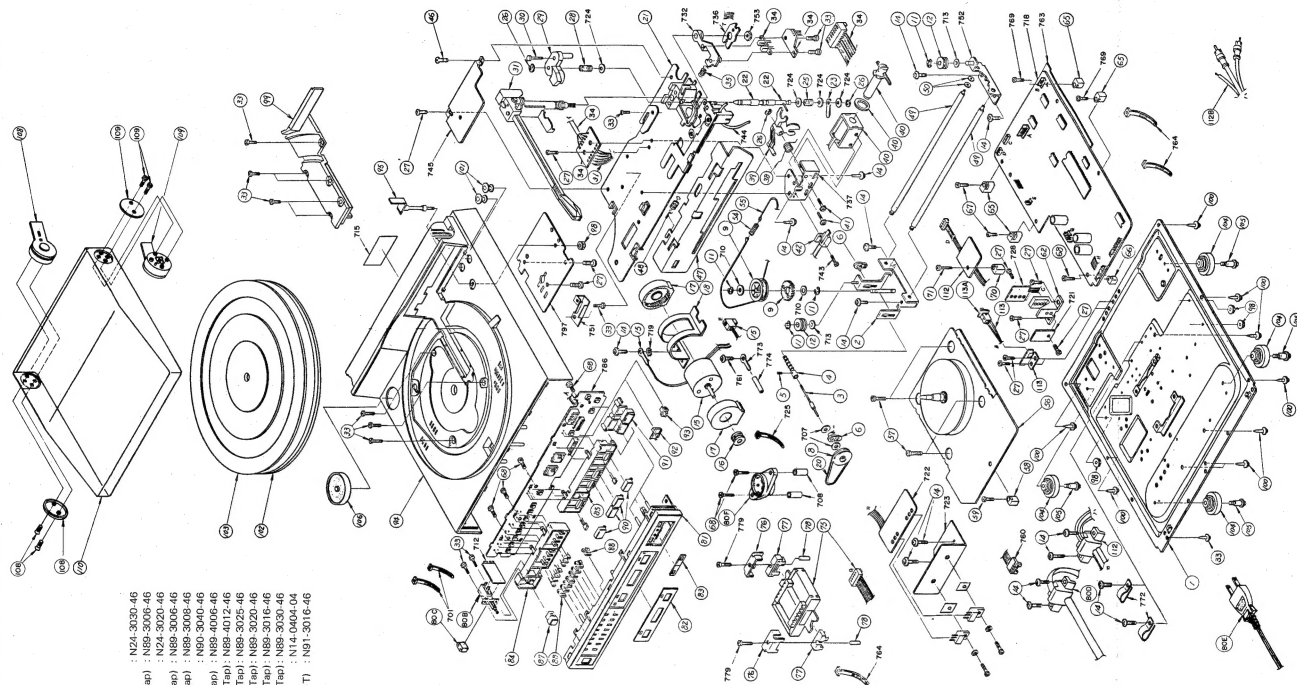
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



KD-72F(K)

EXPLODED VIEW

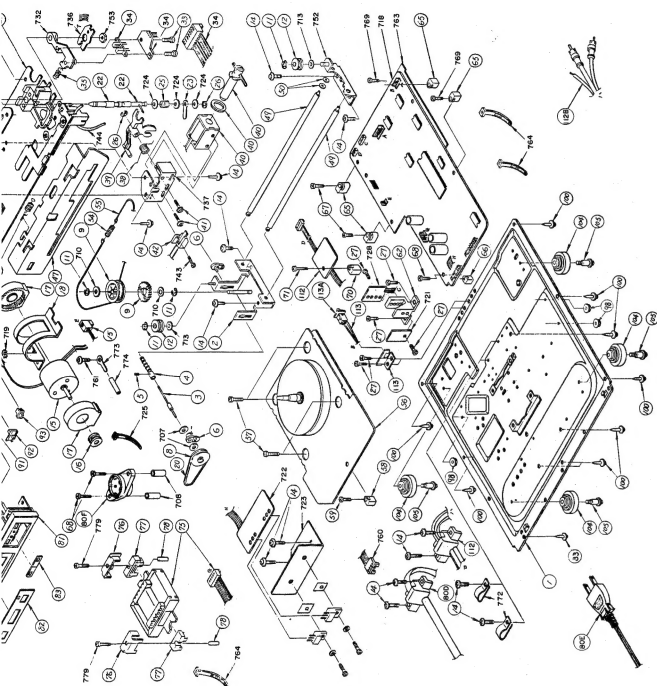
Exploded No. larger than 700 are not supplied.



- 11 - 43 (ER) : N24-3020-46
 14 - 43 x 6 (B-Tap) : N89-3006-46
 26 - 42 (ER) : N24-3020-46
 27 - 43 x 6 (B-Tap) : N89-3006-46
 33 - 43 x 6 (B-Tap) : N89-3006-46
 41 - 43 x 4 (TP) : N60-3040-46
 46 - 44 x 12 (B-Tap) : N89-3012-46
 57 - 43 x 25 (B-Tap) : N89-3025-46
 59 - 43 x 25 (B-Tap) : N89-3025-46
 67 - 43 x 20 (B-Tap) : N89-3020-46
 68 - 43 x 16 (B-Tap) : N89-3016-46
 71 - 43 x 30 (B-Tap) : N89-3030-46
 98 - 43 x 16 (TP-T) : N61-3016-46
 100 - 43 x 16 (TP-T) : N61-3016-46

DED VIEW

Exploded No. lager then 700 are not supplied.



KD-72F/B KD-72F/B

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

PARTS LIST

Ref. No. 参照番号	Address 位置	New 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KD-72F/B K : KD-72FBL P : KD-72FB UE : KD-72FB M2 : KD-72FB K2 : KD-72FBL U : KD-72FB M : KD-72F						
1	4A	*	A10-0720-08	CHASSIS ASSY	KK2P UJEM M2	
1	4A	*	A10-0760-08	CHASSIS ASSY		
1	4A	*	A10-0760-08	CHASSIS ASSY		
2	3B	*	A10-0721-08	CHASSIS ASSY (MECHANISM)		
3	3B	*	D21-1020-08	SHAFT		
4	3B	*	D13-0140-08	WARM		
5	3B	*	N09-1330-08	SCREW (2X3)		
6	3B	*	D23-0183-08	BEARING		
8	3B	*	D15-0209-08	PULLEY(2)		
9	3B	*	D13-0142-08	DRUM GEAR ASSY		
12	3B,3C	*	D15-0120-08	PULLEY		
15	2B,3B	*	T42-0036-08	MOTOR		
16	3B	*	D15-0211-08	PULLEY(1)		
17	3B	*	F07-0446-08	COVER		
18	3B	*	J21-3389-08	MOUNTING HARDWARE		
20	3B	*	D16-0093-08	BELT		
21	2C	*	J19-0866-08	TONEARM BASE ASSY		
22	3C	*	D21-1021-08	SHAFT ASSY		
23	3C	*	E23-0131-08	TERMINAL		
25	3C	*	G01-1439-08	COMPRESSION SPRING		
28	2C	*	G01-1440-08	COMPRESSION SPRING		
29	2C	*	D12-0098-08	EL PLATE		
30	2C	*	N09-1331-08	SCREW (2.6X15)		
31	2C	*	J91-0220-08	TONEARM ASSY	M KK2U	
31	2C	*	J91-0245-08	TONEARM ASSY		
31	2C	*	J91-0245-08	TONEARM ASSY	UJEM2P	
34	2C,3C	*	W02-0570-08	TONEARM SENSOR PCB ASSY		
35	3C	*	G01-1441-08	COMPRESSION SPRING		
38	3C	*	G01-1442-08	TORSION SPRING		
39	3C	*	D12-0099-08	EL LEVER		
40	3C	*	T94-0040-08	SILENCID ASSY		
42	3B	*	S46-1039-08	LEAF SWITCH ASSY		
47	3B	*	F19-0313-08	METAL SHEET		
48	3B	*	G01-1443-08	TENSION SPRING		
49	3C	*	J90-0128-08	RAIL		
50	3C	*	G53-0049-08	PACKING		
54	3C	*	G01-1444-08	TENSION SPRING		
55	3C	*	J60-0007-08	STRING		
56	4B	*	T43-0039-08	DD MOTOR ASSY		
58	4B	*	J19-0867-08	PCB SUPPORT		
62	4B	*	J19-0868-08	SENSOR HOLDER		
65	3C	*	J19-0869-08	SENSOR PCB SUPPORT		
66	3B	*	J19-0870-08	PCB SUPPORT		
70	3B	*	J19-0871-08	PCB SUPPORT		
Δ 75	3A	*	L01-3761-08	POWER TRANSFORMER	KK2P	
Δ 75	3A	*	L01-3765-08	POWER TRANSFORMER	UJEM	
Δ 75	3A	*	L01-3765-08	POWER TRANSFORMER	M2	
76	3A	*	J21-3390-08	MOUNTING HARDWARE		
77	3A	*	J02-0147-08	INSULATOR		
78	2A,3A	*	J31-0216-08	CAPACITOR		
Δ 80B	2A	*	S40-1084-08	POWER SWITCH (S1)		
Δ 80C	2A	*	C91-0647-05	SPARK KILLER (C1)		
Δ 80D	4A	*	J19-0876-08	CARD BUSHING	KK2P	

E: Scandinavia & Europe H: Audio Club K: USA P: Canada

S: South Africa T: England U: Pk(Far East, Hawaii)

UE: AAFES(Europe) X: Australia M: Other Areas

Δ indicates safety critical components

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
△ 80E	4A	*	E30-0917-08	POWER CORD	UJEM	
80E	4A	*	E30-0917-08	POWER CORD	M2	
80E	4A	*	E30-0918-08	POWER CORD	K2	
△ 80F	3A	*	S29-1143-08	POWER VOLTAGE SELECTOR (S2)	UJEM	
△ 80F	3A	*	S29-1143-08	POWER VOLTAGE SELECTOR (S2)	M2	
81	3A	*	A20-4090-08	PANEL	KK2U	
81	3A	*	A20-4090-08	PANEL	UJEM2P	
81	3A	*	A20-4091-08	PANEL	M	
82	3A	*	B03-1264-08	DRESSING BOARD		
83	3A	*	B03-1265-08	DRESSING BOARD		
83	3A	*	B03-1526-08	DRESSING BOARD	KK2U	
84	2A	*	A22-0429-08	SUB PANEL	UJEM2P	
85	2B	*	A22-0430-08	SUB PANEL		
87	2A	*	K29-1446-04	KNBB ASSY (POWER)		
88	2A	*	K27-1200-08	KNBB (RANDOM)	M	
88	2A	*	K27-1201-08	KNBB (RANDOM)		
88	2A	*	K27-1320-08	KNBB ASSY (RANDOM)	KK2U	
88	2A	*	K27-1320-08	KNBB ASSY (RANDOM)	UJEM2P	
90	2A	*	K29-1602-08	KNBB ASSY (OPERATION)	M	
90	2A	*	K29-1602-08	KNBB ASSY (OPERATION)		
90	2A	*	K29-1851-08	KNBB ASSY (OPERATION)	KK2U	
90	2A	*	K29-1851-08	KNBB ASSY (OPERATION)	UJEM2P	
91	2B	*	K29-1603-08	KNBB ASSY (SWITCH)	M	
91	2B	*	K29-1852-08	KNBB ASSY (SWITCH)	KK2U	
91	2B	*	K29-1852-08	KNBB ASSY (SWITCH)	UJEM2P	
92	3B	*	K27-1202-08	KNBB (SENSITIVITY)	M	
92	3B	*	K27-1321-08	KNBB (SENSITIVITY)	KK2U	
92	3B	*	K27-1321-08	KNBB (SENSITIVITY)	UJEM2P	
93	3B	*	K27-1203-08	KNBB (DUBBING)	M	
93	3B	*	K27-1322-08	KNBB (DUBBING)	KK2U	
93	3B	*	K27-1322-08	KNBB (DUBBING)		
93	3B	*	A27-1322-08	KNBB (DUBBING)	UJEM2P	
94	2B	*	K02-0167-08	TURNABLE CASE	M	
94	2B	*	A02-0199-08	TURNABLE CASE	KK2U	
94	2B	*	A02-0199-08	TURNABLE CASE	UJEM2P	
95	2C	*	J19-0872-08	TONEARM REST	M	
95	2C	*	J19-2156-08	TONEARM REST	KK2U	
95	2C	*	J19-2156-08	TONEARM REST	UJEM2P	
99	1C	*	F07-0447-08	COVER	M	
99	1C	*	F07-0454-08	COVER	KK2U	
99	1C	*	F07-0454-08	COVER	UJEM2P	
101	2C	*	B09-0037-08	CAP	M	
101	2C	*	B09-0045-08	CAP	KK2U	
101	2C	*	B09-0045-08	CAP	UJEM2P	
102	1A	*	D02-0054-08	TURNABLE PLATTER		
103	1A	*	G16-0080-08	TURNABLE SHEET		
104	4A, 4B	*	J02-0148-08	INSULATOR		
105	4A, 4B	*	N09-1332-08	SCREW		
106	2B	*	M01-0115-08	EP ADAPTER		
108	1C	*	J50-0116-08	HINGE ASSY (L)	KUJUE	
108	1C	*	J50-0116-08	HINGE ASSY (L)	M2P	
109	1C	*	J50-0117-08	HINGE ASSY (R)	KUJUE	
109	1C	*	J50-0117-08	HINGE ASSY (R)	M2P	
110	1A	*	A53-0623-08	DUST COVER	KUJUE	
110	1A	*	A53-0623-08	DUST COVER	M2P	
110	1A	*	A53-0623-08	DUST COVER	M	

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PARTS LIST

* New Parts

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
112	4A, 3B	*	W02-0574-08	MUTING PCB ASSY	UJEM	
112	4A, 3B	*	W02-0574-08	MUTING PCB ASSY	M2	
112	4A, 3B	*	W02-0574-08	MUTING PCB ASSY	KK2	
112	4A, 3B	*	W02-0602-08	MUTING PCB ASSY	P	
112B	4C	*	E30-0883-08	AUDIO CORD	UJEM	
112B	4C	*	E30-0883-08	AUDIO CORD	M2P	
112B	4C	*	E30-0916-08	AUDIO CORD	KK2	
112C	4A	*	J19-0897-08	CORD CLAMPER	UJEM	
112C	4A	*	J19-0897-08	CORD CLAMPER	M2	
112C	4A	*	J19-2155-08	CORD CLAMPER	KK2	
113	3B	*	J21-3391-08	JACK ASSY		
113A	3B	*	E30-0122-08	JACK		
-		*	B46-0092-04	WARRANTY CARD	KK2	
-		*	B46-0093-03	WARRANTY CARD	P	
-		*	B46-0094-04	WARRANTY CARD	UJUE	
-		*	B46-0095-04	WARRANTY CARD	UJUE	
-		*	B50-5071-00	INSTRUCTION MANUAL (E)	MM2P	
-		*	B50-5072-00	INSTRUCTION MANUAL (F)	MM2	
-		*	B50-5075-00	INSTRUCTION MANUAL		
-		*	E30-0879-08	AUTO FUNCTION CORD		
-		*	H01-5200-08	ITEM CARTON CASE	KUJUE	
-		*	H01-5200-08	ITEM CARTON CASE	M2P	
-		*	H01-5202-08	ITEM CARTON CASE	K2	
-		*	H10-1719-08	POLYSTYRENE FIXTURE (L)	K2	
-		*	H10-1720-08	POLYSTYRENE FIXTURE (R)		
-		*	H10-1727-08	PICKUP PAD		
-		*	H10-1739-08	POLYSTYRENE FIXTURE (L)	KUJUE	
-		*	H10-1739-08	POLYSTYRENE FIXTURE (L)	MM2P	
-		*	H10-1740-08	POLYSTYRENE FIXTURE (R)	KUJUE	
-		*	H10-1740-08	POLYSTYRENE FIXTURE (R)	MM2P	
-		*	H01-5201-08	ITEM CARTON CASE	M	
-		*	B30-1032-08	LED PROGRAM		
D208		*	B30-1033-08	LED (2 COLOR) SPEED		
D209		*	B30-1034-08	LED REPEAT		
D501		*	15953	DIBOE		
RLS01		*	S51-2067-08	REED RELAY		
SM201-209		*	S40-2197-08	TACT SWITCH		
SM210-211		*	S40-2198-08	DOUBLE-ACTION TACT SWITCH		
SM212-214		*	S40-2197-08	TACT SWITCH		
SM215		*	S31-2086-08	SLIDE SWITCH (SENSITIVITY)		
SM216		*	S40-2199-08	PUSH SWITCH (DUB)		
X501		*	25C945(P.O.)	TRANSISTOR		
ELECTRIC PARTS						
LED101			B30-1031-08	LED (SEL-2110S)		
C101			CE04M1V102M	ELECTR0 1000UF 35WV		
C102, 103			CE04M1E102M	ELECTR0 1000UF 25WV		
C104, 105			CE04M1C101M	ELECTR0 100UF 16WV		
C106			CE04M0J101M	ELECTR0 100UF 6.3WV		
C107			CE04M1E4R7M	ELECTR0 4.7UF 25WV		
C108, 109			CE04M1H010M	ELECTR0 1UF 50WV		
C110, 111			CE04M1E100M	ELECTR0 10UF 25WV		
C112, 113			CE04M1H010M	ELECTR0 1UF 50WV		
C114, 115			CE04M1C330M	ELECTR0 33UF 16WV		
C116			C093M1H10AJ	MYLAR 0.1UF J		

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C117 C118-119 C120 C122-123 C125-138			C093M1H472J C0455L1H221J C045B1H103Z C045B1H103Z C045B1H103Z	MYLAR 0.0047UJ F CERAMIC 220PF J CERAMIC 0.01UF Z CERAMIC 0.01UF Z CERAMIC 0.01UF Z	
△ F101-103			F05-1024-05	FUSE (1A)	
RA101 VR101-102 VR103-104 VR105 VR106			R90-0288-08 R12-7018-08 R12-4028-08 R12-5045-08 R12-3087-08	BAR RESISTOR TRIMMING P8T 500K (SENSOR) TRIMMING P8T 50K (SENSOR) TRIMMING P8T 200K (DOWN P8S1.) TRIMMING P8T 10K (TRACKING)	
△ BD101-102 △ BD101-102 D101-102 D101-102 D101-102			R8-151 S1V8-10 EM-1 F14C 1S1943	D18DE D18DE D18DE D18DE D18DE	
D103-105 D103-105 D110 D110 D113-119			1S1588 1S953 1S1588 1S953 1S1588	D18DE D18DE D18DE D18DE D18DE	
D113-119 D121-123 D121-123 D130 D130			1S953 1S1588 1S953 EM-1 F14C	D18DE D18DE D18DE D18DE D18DE	
D130 IC101 IC102 IC102 IC103			1S1943 MF2002 TC4001BP UPD4001BC TC4528BP	D18DE IC (U-COM) IC IC IC	
IC103 IC104 IC104 IC105-106 IC105-106			UPD4528BC NJM2902N UPC324C NJM4558C UPC4558C	IC IC IC IC IC	
PT101-103 Q101 RX101 RX101 RX102			PN-1205 L77-0589-08 DTA124 UN1112 DTC124	PHOTO TRANSISTOR CRYSTAL RESONATOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
RX102 RX103-104 RX103-104 RX105-108 RX105-108			UN1212 DTA124 UN1112 DTA144 UN1113	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
RX109 RX109 RX110 RX110 RX111			DTA124 UN1112 DTC124 UN1212 DTC144	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
RX111 RX112 RX112			UN1213 DTC124 UN1212	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	

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PARTS LIST/PACKING

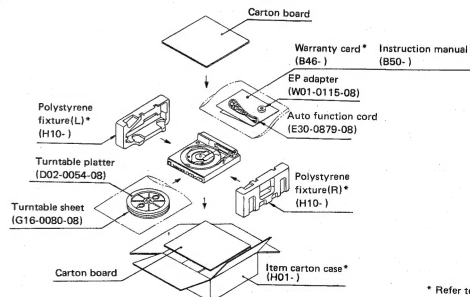
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RX113 RX113 X101 X102 X103-104			DTC144 UN1213 2S8536(K,L) 2SD381(K,L) 2SD571(K,L,M)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
X103-104 X105 X105 X106 X106			2SD667(C,D) 2SD571(K,L,M) 2SD667(B,C,D) 2SB605(K,L,M) 2SB647(B,C,D)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
X107 X107 X108-110 X108-110 X111			2SC1815(Y,G,R) 2SC945(P,D) 2SA1015(Y,G,R) 2SA733(P,D) 2SK68(K,L)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET		
X111 X112 X112 X113 X113			2SK68A(K,L) 2SA1015(Y,G,R) 2SA733(P,D) 2SD571(K,L,M) 2SD667(C,D)	FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
ZD101-102 ZD103 ZD103			RD11E(B2) HZ6-A3 RD5, 6E(B2)	ZENER DIODE ZENER DIODE ZENER DIODE		
MOTOR ASS'Y						
IC1		*	UPC1043C	IC (MOTOR CONTR'L)		

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